

**THAT WHICH IS CLAIMED:**

1. A vehicle remote control system to be operated directly via a cellular telephone without using intervening cellular communications infrastructure, the cellular telephone comprising an  
5 input device and a transmitter for transmitting signals relating to a command code entered from the input device and a unique identification code for the cellular telephone, the vehicle remote control system comprising:

10 a receiver positioned at the vehicle for receiving signals directly from the cellular telephone without using intervening cellular communications infrastructure; and  
a controller positioned at the vehicle and  
15 being switchable between a learning mode and an operating mode, said controller when in the learning mode learning the unique identification code of a cellular telephone so that the cellular telephone is an authorized cellular telephone, said controller when in  
20 the operating mode controlling at least one vehicle function responsive to signals received from the authorized cellular telephone.

2. A vehicle remote control system according to Claim 1, wherein said controller cooperates with said receiver to learn the unique identification code of the cellular telephone by wireless reception from  
5 the cellular telephone.

3. A vehicle remote control system according to Claim 2, wherein said receiver has a controllable

sensitivity; and wherein said controller reduces the sensitivity of said receiver when in the learning mode.

4. A vehicle remote control system according to Claim 1, wherein said receiver comprises a frequency scanning receiver for scanning available transmit frequencies of the authorized cellular telephone.

5 5. A vehicle remote control system according to Claim 1, further comprising an electrical connector coupled to said controller and cooperating therewith to permit said controller to interface with the cellular telephone to learn the unique identification code of the cellular telephone.

6. A vehicle remote control system according to Claim 1, wherein said controller comprises a security controller switchable between armed and disarmed modes; and wherein the at least one vehicle function comprises switching between armed and disarmed modes.

7. A vehicle remote control system according to Claim 1, wherein said controller comprises a door lock controller; and wherein the at least one vehicle function comprises locking or unlocking at least one vehicle door.

8. A vehicle remote control system according to Claim 1, wherein said controller comprises an engine starting controller; and wherein the at least one vehicle function comprises starting a vehicle engine.

9. A vehicle remote control system according to Claim 1, further comprising a user operable switch connected to said controller; and wherein said controller is switchable to the learning mode  
5 responsive to said user operable switch.

10. A vehicle remote control system according to Claim 1, further comprising a user operable switch connected to said controller; wherein said controller is connected to at least one vehicle  
5 device; and wherein said controller is switchable to the learning mode responsive to said user operable switch and responsive to at said at least one vehicle device.

11. A vehicle remote control system according to Claim 1, wherein said controller is selectively responsive to less than seven digit command codes from the authorized cellular telephone.

12. A vehicle remote control system to be operated directly via a cellular telephone without using intervening cellular communications infrastructure, the cellular telephone comprising a  
5 keypad and a transmitter for transmitting signals relating to a command code entered from the keypad and a unique identification code for the cellular telephone, the vehicle remote control system comprising:  
10 a receiver positioned at the vehicle for receiving signals directly from the cellular telephone without using intervening cellular communications infrastructure;

a controller positioned at the vehicle and  
15 being switchable between a learning mode and an  
operating mode, said controller when in the learning  
mode learning the unique identification code of a  
cellular telephone so that the cellular telephone is an  
authorized cellular telephone, said controller when in  
20 the operating mode controlling at least one vehicle  
function responsive to signals received from the  
authorized cellular telephone; and

an electrical connector coupled to said  
controller and cooperating therewith to permit said  
25 controller to interface with the cellular telephone to  
learn the unique identification code of the cellular  
telephone.

13. A vehicle remote control system  
according to Claim 12, wherein said receiver comprises  
a frequency scanning receiver for scanning available  
transmit frequencies of the authorized cellular  
5 telephone.

14. A vehicle remote control system  
according to Claim 12, wherein said controller  
comprises a security controller switchable between  
armed and disarmed modes; and wherein the at least one  
5 vehicle function comprises switching between armed and  
disarmed modes.

15. A vehicle remote control system  
according to Claim 12, wherein said controller  
comprises a door lock controller; and wherein the at  
least one vehicle function comprises locking or  
5 unlocking at least one vehicle door.

16. A vehicle remote control system according to Claim 12, wherein said controller comprises an engine starting controller; and wherein the at least one vehicle function comprises starting a  
5 vehicle engine.

17. A vehicle remote control system according to Claim 12, further comprising a user operable switch connected to said controller; and wherein said controller is switchable to the learning  
5 mode responsive to said user operable switch.

18. A vehicle remote control system to be operated directly via a cellular telephone without using intervening cellular communications infrastructure, the cellular telephone comprising a  
5 keypad and a transmitter for transmitting signals relating to a command code entered from the keypad and a unique identification code for the cellular telephone, the vehicle remote control system comprising:

10 a receiver positioned at the vehicle for receiving signals directly from the cellular telephone without using intervening cellular communications infrastructure;

a controller positioned at the vehicle and  
15 being switchable between a learning mode and an operating mode, said controller when in the learning mode learning the unique identification code of a cellular telephone so that the cellular telephone is an authorized cellular telephone, said controller when in  
20 the operating mode controlling at least one vehicle

function responsive to signals received from the authorized cellular telephone; and

25 said controller cooperating with said receiver to learn the unique identification code of the cellular telephone by wireless reception from the cellular telephone.

19. A vehicle remote control system according to Claim 18, wherein said controller comprises a security controller switchable between armed and disarmed modes; and wherein the at least one  
5 vehicle function comprises switching between armed and disarmed modes.

20. A vehicle remote control system according to Claim 18, wherein said controller comprises a door lock controller; and wherein the at least one vehicle function comprises locking or  
5 unlocking at least one vehicle door.

21. A vehicle remote control system according to Claim 18, wherein said controller comprises an engine starting controller; and wherein the at least one vehicle function comprises starting a  
5 vehicle engine.

22. A vehicle remote control system according to Claim 18, further comprising a user operable switch connected to said controller; and wherein said controller is switchable to the learning  
5 mode responsive to said user operable switch.

23. A method for vehicle remote control directly via a cellular telephone without using intervening cellular communications infrastructure, the cellular telephone comprising an input device and a  
5, transmitter for transmitting signals relating to a command code entered from the input device and a unique identification code for the cellular telephone, the method comprising:

receiving signals directly from the cellular  
10 telephone at the vehicle without using intervening cellular communications infrastructure;

switching a controller positioned at the vehicle to a learning mode and learning the unique identification code of a cellular telephone so that the  
15 cellular telephone is an authorized cellular telephone; and

switching the controller to an operating mode and controlling at least one vehicle function responsive to signals received from the authorized  
20 cellular telephone.

24. A method according to Claim 23, wherein the controller cooperates with the receiver to learn the unique identification code of the cellular telephone by wireless reception from the cellular  
5 telephone.

25. A method according to Claim 24, further comprising reducing sensitivity of the receiver when in the learning mode.

26. A method according to Claim 23, wherein the receiver comprises a frequency scanning receiver

for scanning available transmit frequencies of the authorized cellular telephone.

27. A method according to Claim 23, further comprising using an electrical connector coupled to the controller and cooperating therewith to permit the controller to interface with the cellular telephone to  
5 learn the unique identification code of the cellular telephone.

28. A method according to Claim 23, wherein the controller comprises a security controller switchable between armed and disarmed modes; and wherein the at least one vehicle function comprises  
5 switching between armed and disarmed modes.

29. A method according to Claim 23, wherein the controller comprises a door lock controller; and wherein the at least one vehicle function comprises locking or unlocking at least one vehicle door.

30. A method according to Claim 23, wherein the controller comprises an engine starting controller; and wherein the at least one vehicle function comprises starting a vehicle engine.

31. A method according to Claim 23, further comprising a user operable switch connected to the controller; and wherein the controller is switchable to the learning mode responsive to the user operable  
5 switch.

32. A method according to Claim 23, wherein the controller is selectively responsive to less than seven digit command codes from the authorized cellular telephone.

33. A remote control system for opening a door, the remote control system to be operated directly via a cellular telephone without using intervening cellular communications infrastructure, the cellular telephone comprising an input device and a transmitter for transmitting signals relating to a command code entered from the input device and a unique identification code for the cellular telephone, the remote control system comprising:

10 a receiver associated at the door for receiving signals directly from the cellular telephone without using intervening cellular communications infrastructure; and

15 a door controller being switchable between a learning mode and an operating mode, said door controller when in the learning mode learning the unique identification code of a cellular telephone so that the cellular telephone is an authorized cellular telephone, said door controller when in the operating

20 mode moving the door between open and closed positions responsive to signals received from the authorized cellular telephone.

34. A remote control system according to Claim 33, wherein said door controller cooperates with said receiver to learn the unique identification code of the cellular telephone by wireless reception from

5 the cellular telephone.

35. A remote control system according to Claim 34, wherein said receiver has a controllable sensitivity; and wherein said door controller reduces the sensitivity of said receiver when in the learning  
5 mode.

36. A remote control system according to Claim 33, wherein said receiver comprises a frequency scanning receiver for scanning available transmit frequencies of the authorized cellular telephone.

37. A remote control system according to Claim 33, further comprising an electrical connector coupled to said door controller and cooperating therewith to permit said door controller to interface  
5 with the cellular telephone to learn the unique identification code of the cellular telephone.

38. A remote control system according to Claim 33, further comprising a user operable switch connected to said door controller; and wherein said door controller is switchable to the learning mode  
5 responsive to said user operable switch.

39. A remote control system according to Claim 33, wherein said door controller is selectively responsive to less than seven digit command codes from the authorized cellular telephone.

40. A method for opening and closing a door directly via a cellular telephone without using intervening cellular communications infrastructure, the

cellular telephone comprising an input device and a  
5 transmitter for transmitting signals relating to a  
command code entered from the input device and a unique  
identification code for the cellular telephone, the  
method comprising:

receiving signals directly from the cellular  
10 telephone without using intervening cellular  
communications infrastructure;

switching a door controller to a learning  
mode and learning the unique identification code of a  
cellular telephone so that the cellular telephone is an  
15 authorized cellular telephone; and

switching the door controller to an operating  
mode for moving the door between open and closed  
positions responsive to signals received from the  
authorized cellular telephone.

41. A method according to Claim 40, wherein  
the door controller cooperates with the receiver to  
learn the unique identification code of the cellular  
telephone by wireless reception from the cellular  
5 telephone.

42. A method according to Claim 41, further  
comprising reducing sensitivity of the receiver when in  
the learning mode.

43. A method according to Claim 40, wherein  
the receiver comprises a frequency scanning receiver  
for scanning available transmit frequencies of the  
authorized cellular telephone.

44. A method according to Claim 40, further comprising an electrical connector coupled to the door controller and cooperating therewith to permit the door controller to interface with the cellular telephone to  
5 learn the unique identification code of the cellular telephone.

45. A method according to Claim 40, wherein the door controller is switchable to the learning mode responsive to a user operable switch.

46. A method according to Claim 40, wherein the door controller is selectively responsive to less than seven digit command codes from the authorized cellular telephone.

47. A building security system to be operated directly via a cellular telephone without using intervening cellular communications infrastructure, the cellular telephone comprising an  
5 input device and a transmitter for transmitting signals relating to a command code entered from the input device and a unique identification code for the cellular telephone, the building security system comprising:

10 a receiver positioned at the building for receiving signals directly from the cellular telephone without using intervening cellular communications infrastructure; and

a building controller connected to said  
15 receiver and being switchable between a learning mode and an operating mode, said building controller when in the learning mode learning the unique identification

code of a cellular telephone so that the cellular  
telephone is an authorized cellular telephone, said  
20 building controller when in the operating mode granting  
access to the building responsive to signals received  
from the authorized cellular telephone.

48. A building security system according to  
Claim 47, wherein said building controller cooperates  
with said receiver to learn the unique identification  
code of the cellular telephone by wireless reception  
5 from the cellular telephone.

49. A building security system according to  
Claim 48, wherein said receiver has a controllable  
sensitivity; and wherein said building controller  
reduces the sensitivity of said receiver when in the  
5 learning mode.

50. A building security system according to  
Claim 47, wherein said receiver comprises a frequency  
scanning receiver for scanning available transmit  
frequencies of the authorized cellular telephone.

51. A building security system according to  
Claim 47, further comprising an electrical connector  
coupled to said building controller and cooperating  
therewith to permit said building controller to  
5 interface with the cellular telephone to learn the  
unique identification code of the cellular telephone.

52. A building security system according to  
Claim 47, further comprising at least one door lock  
coupled to said building controller; and wherein said

building controller unlocks said at least one door lock  
5 responsive to the signals from the authorized cellular  
telephone.

53. A building security system according to  
Claim 47, further comprising at least one building  
security sensor connected to said building controller;  
and wherein said building controller is switchable  
5 between an armed mode for generating an alarm  
responsive to said at least one building sensor, and a  
disarmed mode.

54. A building security system according to  
Claim 47, further comprising a user operable switch  
connected to said building controller; and wherein said  
building controller is switchable to the learning mode  
5 responsive to said user operable switch.

55. A building security system according to  
Claim 47, wherein said building controller is  
selectively responsive to less than seven digit command  
codes from the authorized cellular telephone.

56. A method for granting access to a  
building directly via a cellular telephone without  
using intervening cellular communications  
infrastructure, the cellular telephone comprising an  
5 input device and a transmitter for transmitting signals  
relating to a command code entered from the input  
device and a unique identification code for the  
cellular telephone, the method comprising:

receiving signals directly from the cellular  
10 telephone without using intervening cellular  
communications infrastructure;

switching a building controller to a learning  
mode and learning the unique identification code of a  
cellular telephone so that the cellular telephone is an  
15 authorized cellular telephone; and

switching the building controller to an  
operating mode for granting access to the building  
responsive to signals received from the authorized  
cellular telephone.

57. A method according to Claim 56, wherein  
the building controller cooperates with the receiver to  
learn the unique identification code of the cellular  
telephone by wireless reception from the cellular  
5 telephone.

58. A method according to Claim 57, wherein  
the receiver has a controllable sensitivity; and  
wherein the building controller reduces the sensitivity  
of the receiver when in the learning mode.

59. A method according to Claim 56, wherein  
the receiver comprises a frequency scanning receiver  
for scanning available transmit frequencies of the  
authorized cellular telephone.

60. A method according to Claim 56, further  
comprising an electrical connector coupled to the  
building controller and cooperating therewith to permit  
the building controller to interface with the cellular

5 telephone to learn the unique identification code of  
the cellular telephone.

61. A method according to Claim 56, further  
comprising at least one door lock coupled to the  
building controller; and wherein the building  
controller unlocks the at least one door lock  
5 responsive to the signals from the authorized cellular  
telephone.

62. A method according to Claim 56, further  
comprising at least one building security sensor; and  
wherein the building controller is switchable between  
an armed mode for generating an alarm responsive to the  
5 at least one building sensor, and a disarmed mode.

63. A method according to Claim 56, further  
comprising a user operable switch connected to the  
building controller; and wherein the building  
controller is switchable to the learning mode  
5 responsive to the user operable switch.

64. A method according to Claim 56, wherein  
the building controller is selectively responsive to  
less than seven digit command codes from the authorized  
cellular telephone.